

**COUNTY OF SAN LUIS OBISPO BOARD OF SUPERVISORS
AGENDA ITEM TRANSMITTAL**

(1) DEPARTMENT General Services	(2) MEETING DATE 3/10/2015	(3) CONTACT/PHONE Machelle Vieux, 805/781-5200	
(4) SUBJECT Letter transmitting plans and specifications (Clerk's File) for the project to Extend Nacimiento Fiber to the County Operations Center, for Board approval and advertisement for construction bids. Bid opening date set for Thursday, April 9, 2015. Districts 1, 2, 3, and 5.			
(5) RECOMMENDED ACTION It is recommended that the Board: <ol style="list-style-type: none"> 1. Approve the project and adopt the plans and specifications for General Services IT - SLO - Extend Nacimiento Fiber, #320037; and 2. Authorize the contract to be advertised for construction bids. The recommended bid opening date is Thursday, April 9, 2015; and 3. Provide the Director, General Services, or her designee, the discretion to extend the bid opening date to a date deemed more appropriate by the Director or her designee, so long as any such extension is in compliance with all applicable laws. 			
(6) FUNDING SOURCE(S) Building Replacement Reserve: \$490,300	(7) CURRENT YEAR FINANCIAL IMPACT N/A	(8) ANNUAL FINANCIAL IMPACT N/A	(9) BUDGETED? Yes
(10) AGENDA PLACEMENT <input checked="" type="checkbox"/> Consent <input type="checkbox"/> Presentation <input type="checkbox"/> Hearing (Time Est. ____) <input type="checkbox"/> Board Business (Time Est. ____)			
(11) EXECUTED DOCUMENTS <input type="checkbox"/> Resolutions <input type="checkbox"/> Contracts <input type="checkbox"/> Ordinances <input checked="" type="checkbox"/> N/A			
(12) OUTLINE AGREEMENT REQUISITION NUMBER (OAR) N/A		(13) BUDGET ADJUSTMENT REQUIRED? BAR ID Number: <input type="checkbox"/> 4/5 Vote Required <input checked="" type="checkbox"/> N/A	
(14) LOCATION MAP Attached	(15) BUSINESS IMPACT STATEMENT? No	(16) AGENDA ITEM HISTORY <input type="checkbox"/> N/A Date: <u>09/25/2012, 12/18/2012</u>	
(17) ADMINISTRATIVE OFFICE REVIEW			
(18) SUPERVISOR DISTRICT(S) Districts 1, 2, 3 & 5			

County of San Luis Obispo



TO: Board of Supervisors

FROM: General Services / Machelie Vieux, Interim Director
805/781-5200

DATE: 3/10/2015

SUBJECT: Letter transmitting plans and specifications (Clerk's File) for the project to Extend Nacimiento Fiber to the County Operations Center, for Board approval and advertisement for construction bids. Bid opening date set for Thursday, April 9, 2015. Districts 1, 2, 3, and 5.

RECOMMENDATION

It is recommended that the Board:

1. Approve the project and adopt the plans and specifications for General Services IT - SLO - Extend Nacimiento Fiber, #320037; and
2. Authorize the contract to be advertised for construction bids. The recommended bid opening date is Thursday, April 9, 2015; and
3. Provide the Director, General Services, or her designee, the discretion to extend the bid opening date to a date deemed more appropriate by the Director or her designee, so long as any such extension is in compliance with all applicable laws.

DISCUSSION

As part of the Nacimiento Water Project (NWP), 96 strands of single mode fiber were run along the entire pipeline route of approximately 45 miles. The San Luis Obispo Flood Control and Water Conservation District uses 24 strands in support of the pipeline. The remaining 72 strands of optical fiber are for County use.

The County Fiber Optic Strategic Plan offers a means to utilize the unique fiber optic resources available to San Luis Obispo County. The Project to connect the 'dark' fiber optic cable underneath the Nacimiento Water Project has risen steadily in importance and priority under the Strategic Plan.

The project will extend the Nacimiento Water Project fiber optic backbone from Cal Poly Stenner Canyon to the County Operations Center, Sheriff Administration at 1585 Kansas Avenue. This is the second part of the fiber loop project intended to develop redundant paths for data exchange between north county and San Luis Obispo. There are two planned areas and construction phases for the NWP Fiber Extension, as follows:

- The Project's first priority is to extend the stub or end of the pipeline fiber from Cal Poly Stenner Canyon to the County Operations Center, Sheriff Administration at 1585 Kansas Avenue. Connecting this roughly 4 miles of largely overhead fiber along existing communications poles will allow the existing 'dark' fiber line to be connected to the existing secure County fiber communications network. This will allow the entire NWP fiber to be 'lit' and ready to splice or connect along the entire length of the pipeline.
- The Project's second priority, Bid Alternate #1, is to install a redundant overhead and underground fiber network from the UMAN Level 3 Communications box at the fiber cable freeway crossing (Walnut Street at the 101 Freeway), to the County IT Data Center, Fourth Floor at 976 Osos Street in Downtown San Luis Obispo. This Alternate Diverse Route for the existing UMAN fiber provides connectivity and redundancy for existing County network, in case of network outage or failure.

OTHER AGENCY INVOLVEMENT/IMPACT

Information Technology Department Infrastructure staff have been involved in the programming and design of the project. General Services and Information Technology Department staff brought the project to the Nacimiento Water Project Commission and NWP Technical Support Group for review and concurrence in a public meeting. The County Environmental Coordinator has reviewed the project and issued a Categorical Exemption (ED14-146). County Counsel has reviewed the Contract for form and legal effect.

FINANCIAL CONSIDERATIONS

The budget for this project is \$490,300. The budget includes the cost for programming, design, bidding and administration. Funds were provided from the General Fund Building Replacement Reserve and placed in Fund Center 230, Capital Projects. The project is currently within budget.

After reviewing the options with professional consultants, the current design of NWP fiber and installation of an alternate diverse fiber route was chosen as a viable and preferred alternate to the initial NWP project scope. The alternate diverse route for fiber in downtown San Luis Obispo will be a Bid Alternate #1 of the bid documents, and may be awardable or in need of further augmentation to the project, dependent on the bid results.

Description	Budget
Project Programming, Design and Administration	\$65,800
Construction Contract	\$337,700
Testing, Permitting, Inspection Fees, Misc. Expenses	\$86,800
TOTAL EXPENDITURES	\$490,300

RESULTS

Approval of the recommended action will allow the project to be advertised for construction bids. Staff will present the bid results and contract award at a future Board of Supervisor's meeting. Connection of the NWP fiber will expand the County of San Luis Obispo's communication infrastructure by well over 50 miles. The alternate diverse fiber route (Bid Alternate #1) will provide a redundant fiber backbone for critical information and emergency services, due to network outage or failure of the UMAN fiber network. The completion of the project would serve the IT Department Fiber Optic Strategic Plan and supports the goal of a well-governed community.

ATTACHMENTS

1. Location Maps, Extend Nacimiento Fiber Phase 1 and Phase 2 (Bid Alternate #1)
2. Plans and specifications (Clerk's File)
3. Memorandum of Understanding of the Fiber Optic Communication Element for the Nacimiento Water Project
4. SLO County IT Department Fiber Optic Strategic Plan